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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/829,321	04/22/2004	Hyun-Sook Kim	1594.1351	5667
21171 7590 07/25/2008 STAAS & HALSEY LLP			EXAMINER	
SUITE 700			HECKERT, JASON MARK	
1201 NEW YORK AVENUE, N.W. WASHINGTON. DC 20005			ART UNIT	PAPER NUMBER
	.,		1792	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/829,321 KIM ET AL. Office Action Summary Examiner Art Unit JASON HECKERT 1792 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 16 April 2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-4.6-19 and 21-29 is/are pending in the application. 4a) Of the above claim(s) 12-17 and 25-29 is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-4, 6-11, 18-19, 21-24 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.

PTOL-326 (Rev. 08-06)

1) Notice of References Cited (PTO-892)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date ______.

Attachment(s)

Interview Summary (PTO-413)
Paper No(s)/Mail Date.

6) Other:

5) Notice of Informal Patent Application

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DETAILED ACTION

Response to Arguments

 Due to the applicant's amendments to the claims, the previous rejections are rendered moot.

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-4, 6-10, 18-19, 21 rejected under 35 U.S.C. 103(a) as being unpatentable over Imamura et al. (Imamura) in view of Sumner et al (Sumner) and Orszulik. Imamura discloses a washing machine with a tub 2, a perforated spin basket (or drum) 3, drive motor 5, water supply valve 9, circulation pump 111 connected to pipe 12 and nozzle 13, an electric heater 11, temperature sensor 24, control means 31, and key input means 35. The water supplier of Imamura includes a first pipe connected to valve 9 directly supplying water to the tub, and a second pipe 12 directly injecting water into the drum (see figure 14). Thus, Imamura discloses the apparatus as claimed. The control means is a microcomputer that controls the motor, heater, water supply, and receives input from the key input and temperature sensor. The control circuitry is able to determine temperatures, and determine whether or not a certain temperature is met (figure 12). Although Imamura discloses a drum coupled to a drive shaft, a front opening, and perforations. Imamura does not disclose a tilted drum with perforations on

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the front wall. Sumner discloses a tilted drum for a washing machine that has a perforated front wall (figures 1 and 2). It would have been obvious at the time of the invention, to use any known drum construction and orientation, such as a tilted drum with a perforated front wall as taught by Sumner, in place of Imamura's drum, as they are known constructions that allow fluid to drain during washing and rinsing operations.

- 4. Imamura discloses an outside water supply pipe connected to a valve 9 and a water pipe supplying water to the tub. Imamura does not disclose a second supply pipe supplying water directly into the drum. Orszulik depicts an outside water supply pipe 22 that diverts water into a pipe 24 for supplying water directly to the tub and a pipe 38 for spraying fresh water onto the clothes located inside the drum (see figures 1 and 2). Thus, the water supplier of the instant application was known in the art at the time of the invention. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Imamura and include a water supplier with a pipe that sprays fresh water into the drum, as show by Orszulik, in order to spray fresh water onto the clothes.
- 5. Claims 11, 22-24 rejected under 35 U.S.C. 103(a) as being unpatentable over Imamura in view Sumner and Orszulik and further in view of Noguchi et al. (Noguchi). Imamura discloses a control circuit means 31 and key input 35 operated by the user. Imamura also teaches that the control means can manipulate the temperature via the heater 11. Imamura does not distinctly disclose a storage or memory unit, however various storage means such as RAM and ROM are common in the art and are generally implemented and inherent in many control circuits and their inclusion cannot be considered novel. Furthermore, Noguchi teaches the use of RAM and ROM in the

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control circuitry of a washing machine to control various steps of washing. Other publications that reference storing temperatures and using stored data for washing machine control include but are not limited to U.S. Patent 6,499,321 to Rhodes et al., U.S. Patent 6,269,506 to Hollatz et al., U.S. Patent 6,003,182 to Song, and U.S. Patent 5,388,299 to Lee. It would have been obvious at the time of the invention to modify Imamura in view of Sumner and Orszulik, as stated above, and further include some type of storage memory in the control circuitry, as taught by Noguchi, to control various wash steps that are either preprogrammed or entered by the user. As stated previously, Imamura discloses an electric heater. In regards to the control circuitry, examiner believes that it would be capable of operating in the same way.

Conclusion

 Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JASON HECKERT whose telephone number is (571)272-2702. The examiner can normally be reached on Mon. to Friday, 9:00 - 5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Barr can be reached on (571)272-1414. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Michael Barr/ Supervisory Patent Examiner, Art Unit 1792